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Notice of Allowability	Application No.	Applicant(s)	1111
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	Examiner	Art Unit	· · · · · ·
	Christopher Verdier	3745	
The MAILING DATE of this communication apperature of the second process of the second process of the second process of the communication apperature of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap ) or other appropriate communicatio IGHTS. This application is subject	pplication. If not included on will be mailed in due co	d ourse. <b>THIS</b>
1. This communication is responsive to			
2. ⊠ The allowed claim(s) is/are <u>1-12</u> . —			
3. $\boxtimes$ The drawings filed on <u>31 July 2003</u> are accepted by the Ex	caminer.		
4. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application.  hitted. Note the attached EXAMINER es reason(s) why the oath or declar st be submitted. son's Patent Drawing Review ( PTO . s Amendment / Comment or in the G .84(c)) should be written on the drawithe header according to 37 CFR 1.121	s national stage applications of the requirement of	uirements OTICE OF
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. No CAL MATERIAL.	ote the
Attachment(s)	6 Thui	<b>5</b>	450)
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ol> <li>5.</li></ol>	Patent Application (PTO- v (PTO-413)	152)
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<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	8), 7. ⊠ Examiner's Amend	ment/Comment	
4.  Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Statem	ent of Reasons for Allow	ance
of Biological Material	9.	,	

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**EXAMINER'S AMENDMENT** 

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Richard Besha, Attorney of Record, on June 24, 2004.

The application has been amended as follows:

In the Specification:

In paragraph 17, line 16, "an" has been changed to -- a --.

In paragraph 18, line 25, after "inches", -- and the airfoil has a root radius of 29.255

inches at the trailing edge -- has been inserted.

In paragraph 22, the line after "TABLE I", -- X -- has been inserted such that it is centered

with respect to the first column of numerical values.

In paragraph 22, the line after "TABLE I", -- Y -- has been inserted such that it is centered

with respect to the second column of numerical values.

In paragraph 22, the line after "TABLE I", -- Z -- has been inserted such that it is centered

with respect to the third column of numerical values.

On pages 11-37, before the first line, -- X -- has been inserted such that it is centered with respect to the first column of numerical values.

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On pages 11-37, before the first line, -- Y -- has been inserted such that it is centered with respect to the second column of numerical values.

On pages 11-37, before the first line, -- Z -- has been inserted such that it is centered with respect to the third column of numerical values.

In the abstract, line 8, "said" has been changed to -- the --.

The change to paragraph 17 and the abstract have been made to correct informalities. The insertion to paragraph 18 has been made to provide antecedent basis in the specification for the corresponding limitation in claim 3. The above changes to paragraph 22 and pages 11-37 have been made to provide column headings for the X, Y, and Z coordinates.

## Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

None of the prior art of record discloses or suggests a turbine nozzle including an airfoil having the specific profile with Cartesian coordinate values of X, Y, and Z set forth in Table I. Such a profile provides for improved aerodynamic efficiency through the turbine stage, and improved aerodynamic and mechanical loading.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Art Unit: 3745

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Humanchuk '853 and Jacks are cited to show turbine nozzles having profiles with Cartesian coordinate values of X, Y, and Z.

Wang, By, Humanchuk '434, and Arness are cited to show turbine bucket airfoils having profiles with Cartesian coordinate values of X, Y, and Z.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Verdier whose telephone number is (703)-308-2638. The examiner can normally be reached on Monday-Friday from 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward K. Look can be reached on (703) 308-1044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C.V. June 24, 2004

Christopher Verdier **Primary Examiner** 

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